10¢

Operating/Service Instructions

SELF-PROPELLED

ROTARY MOWER

Model No.
123-370-033

IMPORTANT

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. Read the Operating and Service Instruction Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Never allow children to operate a power mower.
3. Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Check the fuel before starting the engine. Do not fill the gasoline tank indoors, when the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
4. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine (motor).
5. Never attempt to make a wheel adjustment while the engine (motor) is running.
6. Mow only in daylight or in good artificial light.
7. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk, never run.

OPERATION

1. Do not change the engine governor settings or overspeed the engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
3. Stop the blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine (motor), remove the wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop the engine (motor) whenever you leave the equipment, before cleaning the mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Shut the engine (motor) off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute.
10. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
11. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
12. Never operate mower without proper guards, plates or other safety protective devices in place.
13. Keep washout ports and other mower-housing service openings closed when mowing.

MAINTENANCE AND STORAGE

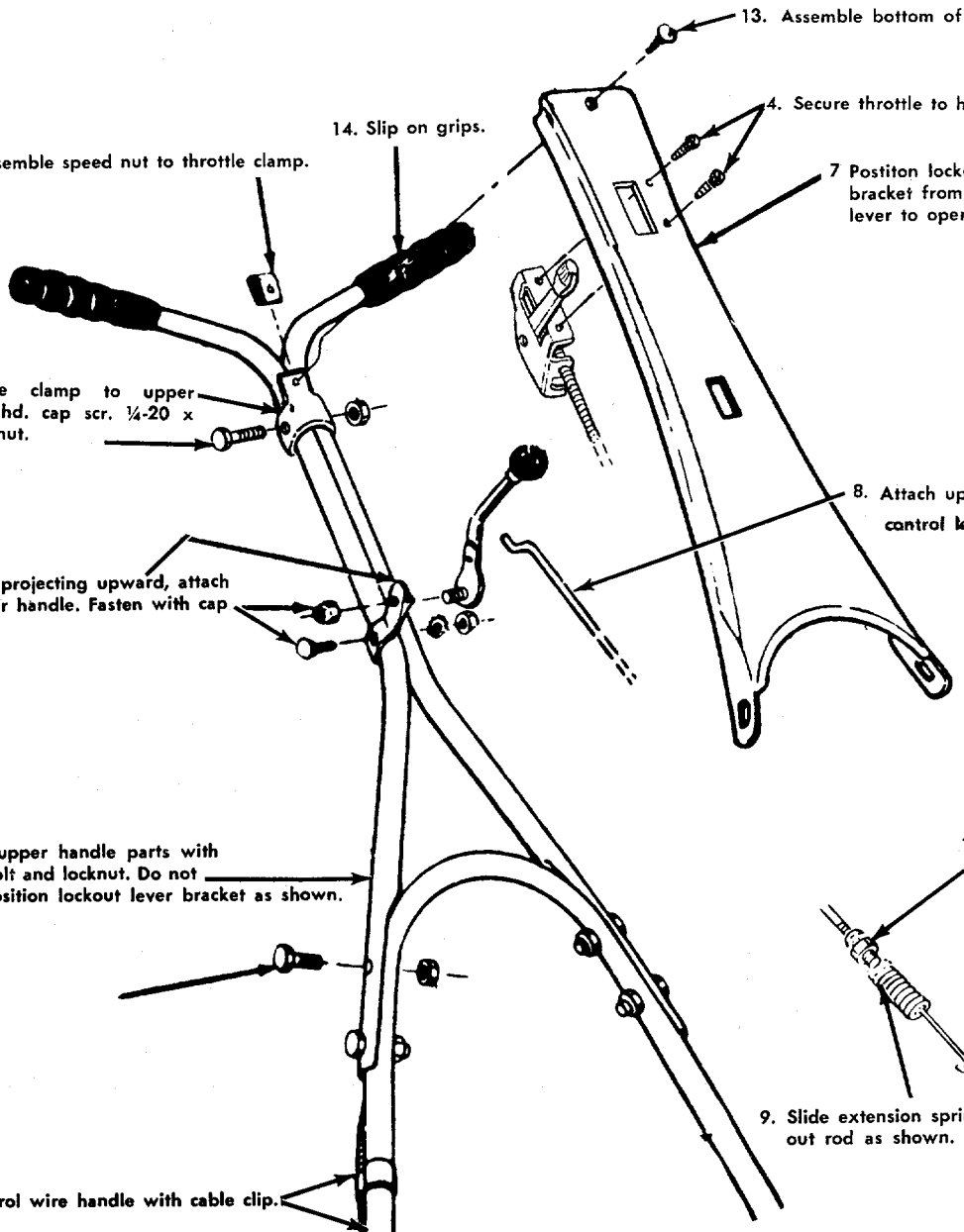
1. Check the blade and the engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

MTD PRODUCTS INC • 5389 WEST 130th STREET • P.O. BOX 2741 CLEVELAND OHIO 44111

FORM NO. 770-4661

ASSEMBLY INSTRUCTIONS

NOTE: Follow instructions starting with number 1 and continue through number 14.



13. Assemble bottom of handle panel to handle.

4. Secure throttle to handle panel.

14. Slip on grips.

6. Assemble speed nut to throttle clamp.

7 Postiton lockout control lever on lockout lever bracket from left. Secure with locknut but allow lever to operate freely.

5. Assemble throttle clamp to upper handle with hex hd. cap scr. ¼-20 x 1½" lg. and hex nut.

8. Attach upper end of rod to lockout control lever as shown.

3. With lockout bracket projecting upward, attach upper handle to lower handle. Fasten with cap screws and locknuts.

2. Assemble upper handle parts with carriage bolt and locknut. Do not tighten. Position lockout lever bracket as shown.

10. Screw elastic stop nut on the lockout rod approximately 1¼" from end of rod. Pull spring back down and hook into pivot link.

9. Slide extension spring onto threaded end of lockout rod as shown.

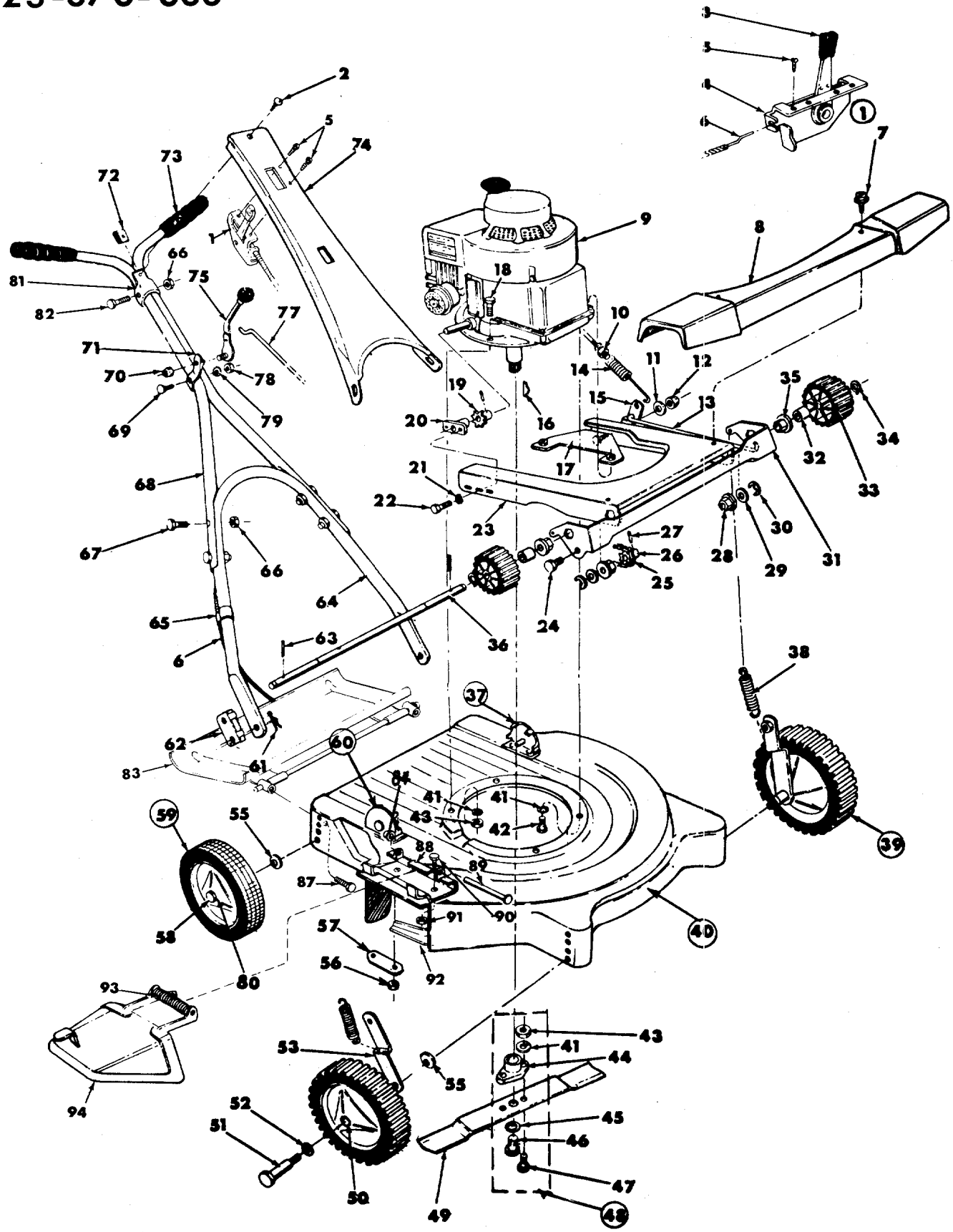
11. Secure control wire handle with cable clip.

NOTE: In tightening nuts and bolts be sure that those which secure lockout control lever to lockout control lever bracket and finger assembly to deck bracket allows free movement of each of these items.

1. Fasten lower handle to wheel brackets as shown. Keep handle brackets between handle and wheel brackets. Secure with cotter pin. If handle does

12. For final adjustment refer to lockout rod adjustment page 6.

123-370-033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PARTS LIST FOR ROTARY MOWER MODEL NO. 123-370-033

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	11597		Throttle Control Complete	
2	710-473		Truss Hd. Mach. Scr. 10-24 x ½" Lg.	
3	7470		Knob—Throttle Control	
4	11600		Throttle Control Bracket	
5	710-407		Slotted Hex Hd. Self Tap Scr. 8-32 x .50" Lg.	
7	710-148		Hex Hd. Slotted Thd. Cut Scr. 8-32 x ⅜" Lg.*	
8	10913	—460	Drive Cover	
9	—		Engine	
10	712-324		Elastic Stop Nut Thd.*	
11	736-300		Flat Washer	
12	712-116		Elastic Locknut ⅜-24 Thd.*	
13	10395		Clutch Rod	
14	732-184		Extension Spring	
15	10394		Link	
16	714-365		Hi-Pro Key	
17	10381		Engine Bracket Ass'y.	
18	710-158		Hex Hd. Cap Scr. 5/16-24 x 1¼" Lg.*	
19	10377		Sprocket Ass'y.	
20	748-183		Bearing Support	
21	736-222		External Lockwasher ¼" Scr.*	
22	710-441		Hex Hd. Cap Scr. ¼-28 x ½" Lg.*	
23	11240	—452	Pivot Plate	
24	711-110		Shoulder Bolt—Special	
25	713-135		Chain W/Master Link #48 x 26" Lg.	
26	10378		Sprocket Assembly	
27	715-247		Roll Pin 3/16 Dia. x 1" Lg.*	
28	748-227		Hex Bearing	
29	736-860		Flat Washer*	
30	716-106		"E"-Ring ⅝ Shaft	
31	10372		Drive Support	
32	2265		Sleeve	
33	10914		Drive Pinion	
34	716-106		"E"-Ring ⅝ Shaft	
35	748-227		Hex Bearing	
36	711-435		Shaft	
37	8389		Handle Mount Bracket—L.H.	
38	732-181		Extension Spring	
39	9392-503		Front Wheel Complete	
40	11659	—460	Deck Assembly	
41	736-119		Spring Lockwasher 5/16 Scr.*	
42	710-442		Hex Hd. Cap Scr. 5/16-18 x 1½" Lg.*	
43	712-123		Hex Nut 5/16-24 Thd.*	
44	748-189		Blade Adapter	
45	736-217		Spring Lockwasher ⅜ Scr. Heavy Duty*	
46	710-459		Hex Hd. Cap Scr. ⅜-24 x 1½" Lg. Heat Treated	
47	710-117		Hex Hd. Cap Scr. 5/16-24 x 1" Lg. Heat Treated	
48	10769		Blade Adapter Kit	
49	742-125		Blade 22"	
50	748-125		Sintered Bearing—Front	
51	711-430		Axle Bolt—Front Only	
52	736-160		Flat Washer*	
53	10379		Link Assembly	
55	736-300		Flat Washer ⅜ Scr.*	
56	710-107		Hex Centerlock Nut ¼-20 Thd.*	
57	8405		Reinforcement Plate	
58	738-213		Axle Bolt—Rear Only	
59	9392-501		Rear Wheel Complete	
60	8388		Handle Mount Bracket—R.H.	
61	714-507		Cotter Pin*	
62	10430		Handle Stop Bracket	
63	715-110		Roll Pin 3/16 Dia. x 1¼" Lg.*	
64	9361		Lower Handle	
65	746-128		Cable Clip	
66	712-107		Hex Center Locknut ¼-20 Thd.*	
67	710-106		Hex Hd. Cap Scr. ¼-20 x 1¼" Lg.*	
68	9354		Upper Handle	
69	710-256		Carriage Bolt ¼-20 x 1½" Lg.*	
70	712-324		Elastic Stop Nut ¼-20 Thd.*	
71	10474		Lockout Bracket	
72	712-526		Speed Nut	
73	720-157		Grip—Black	
74	11605		Handle Panel	
75	8169		Lockout Lever Assembly	
76	8132		Ball—Knob	
77	711-517		Lockout Rod	
78	712-287		Hex Nut ¼-20 Thd.*	
79	736-222		External Lockwasher ¼ Scr.*	
80	7006		Fortiflex Bearing—Rear	
81	7861		Throttle Clamp	
82	710-606		Hex Hd. Cap Scr. ¼-20 x 1½" Lg.*	
83	11193		Protective Shield Ass'y.—Complete	N
84	726-106		Push-on Flange Palnut	
87	710-567		Hex Hd. Cap Scr. ¼-28 x ⅝" Lg.	
88	11130		Adapter Plate	
89	711-555		Pivot Pin	
90	710-289		Hex Hd. Cap Scr. ¼-20 x .50" Lg.*	
91	712-107		Hex Center Locknut ¼-20 Thd.	
92	11152		Internal Bar	
93	732-253		Torsion Spring	
94	11141	—460	Chute Deflector	
	11679	—460	Chute Deflector Ass'y. (Incl. Ref. Nos. 84, 88, 89, 93, & 94.) Not Shown	

460—Greenflake

When ordering parts, if color or finish is important, use the appropriate color code shown above (e.g. Green flake—11659 (460).)

The engine is not under warranty by the tiller manufacturer.

If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines-Gasoline."

This mower should be broken in following the procedure described in the break-in instructions. The added effort here will double the service life of the unit. Particular attention should be paid to the notes on alignment.

When operating this mower, unnecessary or excessive engaging of the drive pinions with the wheels should be avoided. This is achieved by minimizing the raising and lowering of the handle during the mowing operation. Failure to observe this operating rule can reduce the service life of the front tires and drive pinions substantially. When engaging the self-propelled mechanism, a slight forward push on the mower as the drive pinions and the gear tread tires mesh will add to smoother and quieter operation. In addition to a smoother operation, it will add substantially to the service life of both the tires and the drive pinions.

HANDLE ASSEMBLY PRECAUTIONS

Although the handle is of a simple design, difficulty has been encountered in its assembly. Certain precautions concerning its assembly must be heeded. The handle must be assembled as shown in the diagram. Trouble arises when certain parts are put together improperly.

A. Lockout control lever must be mounted as shown in the illustration.
B. The lockout control lever bracket must be mounted with the projection upward as shown in the illustration.
C. If lower handle is too narrow to lock into handle bracket, spread as needed.

BREAK-IN INSTRUCTIONS

1. Before starting the engine, lubricate all the bronze bearings on the drive shaft. The same oil which is used for the engine may be used for this.

   Check the lockout control for proper operation. See HANDLE ASSEMBLY PRECAUTIONS.

   Check drive assembly alignment. When the lockout control lever is moved to the Self-Propelled position (as shown in diagram), the black nylon drive pinions should mesh simultaneously with the gear tread tires. The lockout control lever should move from Self-Propelled position easily.

OPERATION

1. Service engine with gas and oil. See Engine Manual packed with lawn mower for complete instructions for care and maintenance of engine. READ DIRECTIONS CAREFULLY.
2. Lubricate bronze bearings on drive shaft.
3. Check drive assembly for correct alignment (see break-in instructions.)
4. When ready to start engine, place lockout control lever into free wheeling position. This is done by snapping the lockout control lever back. Start engine in accordance with instructions in Engine Manual. After engine starts. move throttle control lever on handle to the desired engine speed.
5. Lockout control lever may now be moved forward for self-propelled operation. When the lockout control lever is in the forward position, the drive pinions engage with the gear tread tires and forward drive results.
6. Temporary free wheeling is achieved by depressing the handle and raising front wheels slightly off the ground. Self-propelled drive is resumed when handle is released. . . Engine is stopped by placing control lever on handle into "Stop" position.

LUBRICATION

IMPORTANT: Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

WHEELS – The bearing on the rear wheels of your lawn mower are made of Lifetime Fortiflex. No lubrication is required. Lubricate front wheel bearing as needed.

THROTTLE – Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil (S.A.E. No. 10 or 20) for ease of operations.

BRONZE BEARINGS – Periodically lubricate all bronze bearings with a few drops of light oil (S.A.E. No. 10 or 20) to minimize friction.

ENGINE – Follow Engine Manual for lubrication instructions.

CHUTE DEFLECTOR – The torsion spring and pivot point should be lubricated periodically with oil to prevent any rust or binding up. Deflector must work freely.

PROTECTIVE SHIELD – The pivot points on the protective shield should be lubricated periodically with oil to prevent any rust or binding up.

ADJUSTMENTS

CAUTION: Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

CHAIN ADJUSTMENT

1. Loosen (do not remove) two hex head cap screws. (See illustration below.)
2. Pull pivot plate forward.
3. Tighten cap screws and check chain tension. Repeat adjustment if necessary.

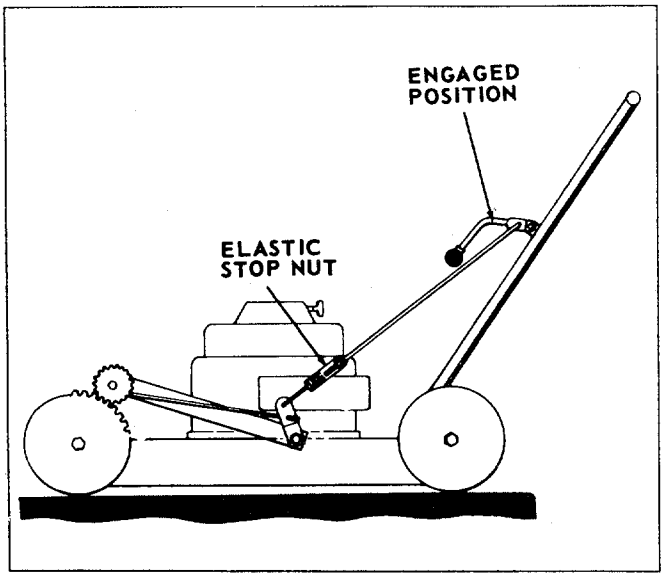
CUTTING HEIGHT – Adjustment may be made by removing and moving wheel studs to desired position. Cutting heights will be raised as wheel studs are moved to a lower hole and lowered as wheel studs are moved to a higher hole in the deck. All wheel studs must be mounted in a relative position to the deck.

THROTTLE – If adjustment becomes necessary, the throttle control wire assembly can be reset as follows.

1. Loosen, but do not remove, screw securing throttle control wire assembly at engine.
2. Move throttle control lever on handle to "Fast" position.
3. Move lever, to which control wire is fastened at engine, to full open position and retighten screw to secure throttle control wire assembly.

LOCKOUT ROD ADJUSTMENT

1. Engage lockout control lever. (See illus. below.) All tension should be released from spring.
2. If tension still remains on spring, disconnect spring from pivot link, slide spring up the lockout rod and back elastic stopnut off one turn.
3. Reassemble tension spring and again check to be sure spring is free from tension. Repeat step 3 until the correct condition is obtained.



MAINTENANCE

CUTTING BLADE – The blade may easily be removed for grinding or replacement as follows:

1. Remove bolt and lockwasher holding blade and blade adapter to engine crankshaft.
2. Remove blade and blade adapter from engine crankshaft.
3. Remove two bolts, lockwashers and nuts holding blade

When sharpening blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

Upon reassembly, make certain all parts are assembled properly and tightened securely.

DECK – The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite corrosion and cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its left side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.
CAUTION: Do not direct the stream of water at a hot engine as damage to the engine may result.

STORAGE – The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the preceding instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Place blocks under deck to raise tires clear of floor.
5. Store mower in a dry, clean area.

USING YOUR ROTARY MOWER

For best results do not cut wet grass because it tends to stick to the underside of the mower thus preventing proper discharge of grass clippings. If wet grass must be cut, reduce engine speed and walking speed to help distribute the clippings more effectively.

New grass should be treated as wet grass, otherwise a normal walking speed is about the right pace for efficient mowing.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion then recut at right angles to first direction.

Lawn should be cut in the fall as long as there is growth.

GRASS CATCHER Model No. 193-003 is available as optional equipment for the mower shown in this manual.

WARNING.

1. The mower should not be operated without the entire grass catcher or chute deflector in place.
2. The mower should not be operated without the protective shield on the rear of the deck in place.

NOTE:

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-119.

IMPORTANT

After striking a foreign object, stop the engine (motor), remove wire from spark plug. Throughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.

PARTS INFORMATION

DEFECTIVE OR MISSING PARTS must be reported to the factory immediately. Such claims must include your model number and date of purchase.

MOWER, TILLER, SNOW THROWER, TRACTOR, TRAIL BIKE AND MUD BUG PARTS

Mower, tiller, snow thrower, tractor, trail bike and mud bug parts are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson — Power Products.

A 1 Engine & Mower Co.
327 East 9th Street
Salt Lake City, Utah 84102

American Electric Ignition Co.
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102

Auto Electric & Carburetor Co.
2625 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233

Automotive Equipment Service Co.
3117 Holmes Street
Kansas City, Missouri 64109

Bailey's Rebuild Inc.
1325 E. Madison Street
Seattle, Washington 98102

Brown Equipment Distributor Inc.
110 Beech Street
Corydon, Indiana 47112

Bullard Supply
2409 Commerce Street
Houston, Texas 77003

Catto & Putty, Inc.
P. O. Box 2408
510 Soledad Street
San Antonio, Texas 78205

Center Supply Company
6867 New Hampshire Avenue
Takoma Park, Maryland 20012

Charles B. Wright Co.
309 4th Avenue, South
Nashville, Tennessee 37201

W. B. Clements
400 Salem Avenue
Roanoke, Virginia 24016

Morton B. Collins Co.
300 Birnie Avenue
Springfield, Massachusetts 01107

Dixie Sales Company
P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

East Point Cycle & Key Shop
1617 Whiteway
East Point, Georgia 30044

Gamble Distributors
West End Avenue
Carthage, New York 13619

Garden Equipment Co., Inc.
6600 Cherry Avenue
Long Beach, California 90805

Henzler, Inc.
2015 Lemay Ferry Road
St. Louis, Missouri 63125

Frank E. Ives & Son
1101 Lincoln Avenue
Prospect Park, Pennsylvania 19076

J. W. Jewett Co.
981 Folsom Street
San Francisco, California 94107

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.
115 W. Geddes St.
Syracuse, New York 13204

The Lawnmower Shop
1340 El Camino Real
San Carlos, California 94070

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

Mathews Auto Electric Co.
420 East 2nd Street
Tulsa Oklahoma 74120

McClure Lawn & Garden Supply
1114 Lexington Avenue
Mansfield, Ohio 44907

Memphis Cycle & Supply Co.
421 Monroe Avenue
Memphis Tennessee 38103

Moz-All of Florida, Inc.
365 Greco Avenue
Coral Gables, Florida 33146

National Central, Div. of
Joe Sterling, Inc.
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281

Power Equipment Distributor
36463 So. Gratiot Avenue
Mt. Clemons, Michigan 48043

Parts & Sales Inc.
2101 Industrial Pkwy.
Elkhart, Indiana 46514

Parts & Sales Inc.
335 West St. Charles Road
Villa Park, Illinois 60181

Power Lawn & Garden Equip. Co.
2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001

Raub Supply Company
James & Mulberry Sts.
Lancaster, Pennsylvania 17604

Radco Distributors
2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32206

Richmond Battery & Ignition
P. O. Box 25369 — 957 Myers St.
Richmond, Virginia 23260

Smith Hardware Company
515 N. George Street
Goldsboro, North Carolina 27530

South Denver Lawn Equip. Co.
527 West Evans
Denver, Colorado 80223

Suhren Engine
8330 Earhart Blvd.
New Orleans, Louisiana 70118

Sutton's Lawn Mower Shop
Route 4, Box 343
North Little Rock, Arkansas 72117

Warner Equipment
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in material and workmanship, defects which are not detected at the time of manufacture.

Our aim is to build into our product quality and reliability. Considerable emphasis is placed on quality control in order to assure our customer of satisfactory product performance. To achieve this goal, it is necessary to gain the cooperation of all concerned, MTD, our sales force and our customers.

MTD's responsibility is to build a quality product and to back up that product. MTD must build this quality product at a competitive price. This cannot be achieved without production in quantity. Quantity production is mass production. In mass production it is always possible for undetected defects to be present when the product reaches the customer. Our warranty is extended to assure the customer that any such defects will be corrected.

Use and maintenance are the responsibility of the customer. MTD cannot assume responsibility for conditions over which it has no control. MTD's responsibility does not cover misuse, excessive use, accident neglect, improper maintenance or alterations by unauthorized persons. Satisfactory product performance can only result when a manufacturer provides and backs up a quality product and the customer follows through with proper use and proper maintenance of that product. When both the manufacturer and the customer recognizes and assumes his responsibility, satisfactory product performance and customer satisfaction are assured.